# Commentary on the Management of Fish Habitat in Northern Canada: Information Requirements and Policy Considerations Regarding Diamond, Oil Sands and Placer Mining – Literature Search

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# COMMENTARY ON THE MANAGEMENT OF FISH HABITAT IN NORTHERN CANADA: INFORMATION REQUIREMENTS AND POLICY CONSIDERATIONS REGARDING DIAMOND, OIL SANDS AND PLACER MINING – LITERATURE SEARCH

by

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# PREFACE

This document is one of a number of reports (Birtwell et al. 2005*a*, 2005*b*; Samis et al. 2005) prepared in response to the need for information that will assist in decision making with respect to authorizations regarding "harmful alteration, disruption or destruction" of fish habitat under the authority of the *Fisheries Act* of Canada.

Although the main focus of these reports is on diamond mining in the Canadian Arctic, which involves destruction of lakes and streams, attention has also been given to oil sands and placer gold mining that also involve the destruction of fish habitat. The assessment of such impacts on fisheries resources and the application of appropriate compensatory and restorative techniques are particularly challenging in Canada's north. This is because of the prevalent harsh environmental conditions such as short open water, ice-free growing season (1-3 months), low summer temperatures (4-12 °C), continuous permafrost in many locations, and lack of sunlight during winter, and the paucity of relevant information.

A comprehensive search and assessment of pertinent literature was conducted to determine deficiencies in knowledge with respect to fish and their habitat in northern Canada. The assessments of the literature obtained through the searches are provided in other reports (Birtwell et al. 2005*a*, 2005*b*). The details of methods used to gather relevant literature for the review, and a list of the records retrieved for this purpose are presented in this report.

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# ABSTRACT

Khan, N.Y., Birtwell, I.K., and Samis, S.C. 2005. Commentary on the management of fish habitat in northern Canada: information requirements and policy considerations regarding diamond, oil sands and placer mining. Literature Search. Can. Data Rep. Fish. Aquat. Sci. 1164: vi + 263 p.

A comprehensive search and assessment of pertinent literature was conducted to determine deficiencies in knowledge with respect to fish and their habitat in northern Canada. Particular emphasis was placed on regions where diamond mining is occurring because of the need to assess the importance of fish habitat that will be affected and to address mitigation, compensatory and restorative measures.

This document comprises details of literature searches for a review of the biology and ecology of selected fish species in Arctic Canada. It includes information on various aspects of the biology and ecology of seven species of fish commonly found in streams and lakes of the Lac de Gras watershed of the Northwest Territories. Details of the searches include information on fish distribution, habitat preferences, diet, seasonal changes, behavior, physiology, life cycle stages, residency and migratory behavior, species associations, limiting factors, tolerance and resistance to stressors, and critical habitat requirements. The search also included aspects of watershed ecology, cumulative effects of habitat change, and habitat compensation and restoration strategies.

The assessment of information obtained from the searches is presented elsewhere (Birtwell et al. 2005*a*, 2005*b*).

The databases that were searched included Aquatic Sciences and Fisheries Abstracts (ASFA), Oceanic Abstracts (OA), Conference Papers Index (CPI), and WAVES (bibliographic information relating to fisheries, aquatic sciences, and nautical sciences currently in the collections of the Fisheries and Oceans Canada libraries). A significant number of relevant records were also obtained from other electronic searches on the Internet. Numerous review articles also provided a significant number of references relevant to this project. Over 3000 records were retrieved. All records were entered into Procite® software and are presented in this document.

# RÉSUMÉ

Khan, N.Y., Birtwell, I.K., and Samis, S.C. 2005. Commentary on the management of fish habitat in northern Canada: information requirements and policy considerations regarding diamond, oil sands and placer mining. Literature Search. Can. Data Rep. Fish. Aquat. Sci. 1164: vi + 263 p.

Une recherche fouillée et une évaluation de la littérature pertinente ont été réalisées afin de déterminer les lacunes dans les connaissances sur le poisson et son habitat dans le Nord canadien. Les chercheurs se sont penchés en particulier sur les régions où se trouvent des mines de diamant en raison de la nécessité d'évaluer l'importance des habitats du poisson qui seront touchés par cette activité et d'étudier les mesures d'atténuation, de compensation et de restauration requises.

Ce document décrit en détail les recherches documentaires qui ont été faites en vue d'un examen de la biologie et de l'écologie de certaines espèces de poissons dans l'Arctique canadien. Il contient aussi de l'information sur divers aspects de la biologie et de l'écologie de sept espèces de poisson communes dans les lacs et cours d'eau du bassin versant du Lac de Gras, dans les Territoires du Nord-Ouest. Les recherches visaient en particulier des renseignements sur la distribution des poissons, leurs habitats préférés, leur régime alimentaire, leurs mutations saisonnières, leur comportement, leur physiologie, les stades de leur cycle de vie, leur comportement sédentaire ou migratoire, les associations entre espèces, les facteurs limitants, leur tolérance et leur résistance aux facteurs perturbants et leurs besoins essentiels en habitats. La recherche a également porté sur des aspects de l'écologie des bassins versants, sur les effets cumulatifs de la modification de l'habitat, ainsi que sur des stratégies de compensation et de restauration de l'habitat.

L'évaluation de l'information recueillie à la suite des recherches est présentée ailleurs (Birtwell et al. 2005*a*, 2005*b*).

Voici une liste partielle des bases de données qui ont été consultées : *Aquatic Sciences and Fisheries Abstracts* (ASFA), *Oceanic Abstracts* (OA), *Conference Papers Index* (CPI), et VAGUES (renseignements bibliographiques concernant les sciences halieutiques, aquatiques et maritimes actuellement contenues dans les collections des bibliothèques de Pêches et Océans Canada). Un nombre appréciable de références pertinentes ont également été obtenues par le biais de recherches électroniques sur Internet. Plus de 3000 références ont été trouvées. Elles ont toutes été chargées dans le logiciel Procite® et sont présentées dans ce document.

# INTRODUCTION

The impetus for this literature search was brought about by the widely-recognized need to understand the critical habitat requirements for fish in the Canadian Arctic (area north of 60°N), especially in view of the destruction of Arctic lakes and streams associated with the growing diamond mining industry in Canada's north. This understanding is considered essential in the decision-making process relating to authorizations issued under section 35 of the *Fisheries Act* regarding "alteration, disruption or destruction" of fish habitat. A comprehensive literature search was, therefore, conducted on the biology and ecology of fish species commonly occurring in the Lac de Gras area, Northwest Territories, where diamond mining activity is currently concentrated.

The main objectives of this literature search were: a) to assess the state of knowledge relating to the biology and ecology of fish species as well as the structure and functioning of aquatic ecosystems in the Canadian Arctic; and b) to identify gaps in knowledge which may need to be filled to adequately assess the impacts of fish habitat destruction (such as whole-lake elimination and stream diversion) associated with diamond mining practices in Canada's north. The literature search was also aimed at an examination of fish habitat compensatory and restorative measures in the unique Arctic environment.

The literature on seven species of fish commonly found in lakes and streams in the Lac de Gras area where diamond mining is currently concentrated in Canada (Martin 2001) was retrieved and assessed. These seven species (lake trout, *Salvelinus namaycush*; round whitefish, *Prosopium cylindraceum*; lake whitefish, *Coregonus clupeaformis*; Arctic grayling, *Thymallus arcticus*; longnose sucker, *Catostomus catostomus*; burbot, *Lota lota*; slimy sculpin, *Cottus cognatus*) are of both ecological and economic importance and often share the same ecological niches.

The search of the literature also included aspects of watershed ecology, cumulative effects, and habitat compensation and restoration strategies.

# METHODS

The literature was searched for information on various aspects of the biology and ecology of the species of fish, including distribution, habitat preferences, diet, seasonal changes, behavior, physiology, life cycle stages, residency and migratory behavior, species associations, limiting factors, tolerance and resistance to stressors, and critical habitat requirements.

## DATABASES SEARCHED

The search was concentrated on the following databases:

- Aquatic Sciences and Fisheries Abstracts (ASFA). ASFA is an abstracting and indexing service covering the world's literature on the science, technology, management and conservation of marine, brackish water, and freshwater resources and environments, including their socio-economic and legal aspects.

- Oceanic Abstracts (OA).
- Conference Papers Index (CPI).
- WAVES. This is a libraries' catalogue containing bibliographic information about the published and unpublished literature relating to fisheries, aquatic sciences, and nautical sciences that is currently in the collections of the Fisheries and Oceans Canada libraries.

## SEARCH STRATEGIES

All databases were searched from earliest record to March 2003. The following search strategies were used for various databases:

### Search Strategy for Biology of Species (ASFA, OA, and CPI)

Because of the huge amount of records on each species in these databases, the search strategy treated the species names of the seven species as a keyword (kw=(*Salvelinus namaycush* or *Prosopium cylindraceum* or *Coregonus clupeaformis* or *Thymallus arcticus* or *Cottus cognatus* or *Catostomus catostomus* or *Lota lota*)) which was searched against the following keywords:

kw=(distribution or (habitat and (preferences or selection or utilization)) or diet or diets or (critical habitat requirements) or (seasonal changes or seasonality) or (behavior or behavior) or life cycle or developmental stage or (residency or residence) and (migratory behavior or migratory behaviour or migrations) or (interspecific relationships) or (limiting factors or limiting factor) or fish physiology or tolerance or resistance or bioenegetics or (feeding behavior or feeding behaviour) or food availability or (trophic structure or trophic levels) or (biological stress or environmental effects) or predator-prey interactions or predation).

### Search Strategy for Biology of Species (WAVES)

This strategy searched for each of the seven species (common names as well as species names) without descriptors or keywords to ensure that no relevant references were missed.

## Search Strategy for Watershed Ecology (ASFA, OA,CPI and WAVES)

This strategy searched the descriptor (de=watersheds or de=lake basins or de=river basins or de=runoff or de=stream flow or de=ground water or de=catchment or de=drainage) against the following set of descriptors:

(de=fertilizers or de=dredging or de=mine tailings or de=diamond or de=excavation underwater or de=trenching or de=oxygen consumption or de=oxygen depletion of de=anoxia or de=hypoxia or de=degradation or de=ecosystem management or de=environmental management or de=eutrophication or su=infilling or su=fish productivity or hydrology).

## Search Strategy for Habitat Compensation and Restoration (ASFA, WAVES)

The following descriptors were used for this strategy:

de=habitat and (id=compensation or de=liability or de=costs or de=degradation or de=man-induced effects or de=reclamation or de=environmental restoration or de=diamonds or de=diamond mining or de=mining)

as well as:

(de=mining or de=diamonds or de=diamond mining) and de=environmental impact

For WAVES, the following additional strategy was also used to search literature relating to diamond mining activity in northern Canada:

(ot=diamonds or ot=diamond mining) and (de=polar or de=arctic or permafrost or de=nwt or de=northwest territories or de=british columbia) ti=ekati or bhp

## Search Strategy for Cumulative Effects (ASFA and WAVES)

This search strategy used the following descriptors:

(de=watersheds or de=lake basins or de=river basins or de=runoff or de=stream flow or de=ground water or de=catchment or de=drainage) and (kw="cumulative effects")

## OTHER SOURCES OF RECORDS

A significant number of relevant records were also obtained from searches via the Internet and on-line searches of selected journals. Numerous review articles, in particular the following, provided a significant number of references for this review:

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Evans, C.L., Reist, J.D., and Minns, C.K. 2002. Life history characteristics of freshwater fishes occurring in the Northwest Territories and Nunavut with major emphasis on riverine habitat requirements. Can. Manuscr. Rep. Fish. Aquat. Sci. No. 2614.

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### RECORDS MANAGEMENT

All records were managed using the Procite® software by ISI ResearchSoft (800 Jones Street, Berkeley, CA 94710, USA. WWW: http://www.procite.com) which is compatible with Microsoft Windows.

## ACKNOWLEDGEMENTS

Joyce Kennedy assited in literature searches and Denis Lasalle obtained hard copies of references. The organization of references was carried out with the assistance of Tyree Lush, Erika Kivik, Aimée Oliver and Doriann Liberty.

## RESULTS

Approximately 4000 records were retrieved from the databases and other sources, and of these about 1000 were duplicates that were removed using Procite® software. The numbers of references cited in the review were over 900 (Birtwell et al. 2005*a*). All records entered into Procite® are appended to this document. These records are available in electronic format and can be searched by author and keywords using the Procite® software.

The details of our review are presented in separate documents (Birtwell et al. 2005*a*, 2005*b*; and Samis et al. 2005).

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